
गन्ना वाहक के लिए स्लेट — विशिष्टि
(दूसरा पुनरीक्षण)

**Slats for Cane Carriers —
Specification**
(*Second Revision*)

ICS 65.060

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FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Sugar Industry Sectional Committee had been approved by the Food and Agriculture Division Council.

Slats are important components of cane carriers which are used to transport cane to the milling tandem, where it is crushed for extraction of juice. This Indian Standard has been formulated to provide guidelines for ensuring their quality.

This standard was first published in 1976 and subsequently revised in 1994. In the first revision of this standard the dimensions for slats were given for different plant capacities.

In this revision, the dimensions have been revised to include four different plant capacities, the corresponding size of the milling plant and, the number of strands, in addition to the width and thickness of slats. In this revision, mild steel conforming to grade E250 BR grade carbon steel of IS 2062 is added. Dimensions of slat cane carried also expanded in light of present practice in sugar industries and figure also modified.

The composition of the Committee responsible for the formulation of this standard is given at Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SLATS FOR CANE CARRIERS — SPECIFICATION

(*Second Revision*)

1 SCOPE

This standard specifies material, dimensions, and requirements of slats for cane carriers.

2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
2062 : 2011	Hot rolled medium and high tensile structural steel
2500 (Part 1) : 2000	Sampling inspection tables: Part 1 Inspection by attributes and by count of defects (<i>second revision</i>)
IS 8465 : 1990	Cane carrier chains (<i>first revision</i>)

3 DIMENSIONS

3.1 Material

Mild steel conforming to grade E250 BR, grade carbon steel of IS 2062 : 2011

3.2 The width, thickness and number of strands of the slats for different milling plant sizes corresponding to different plant capacities shall be as given in Table 1.

3.3 Typical designs of slats are given in Fig. 1A and 1B.

4 WORKMANSHIP AND FINISH

4.1 The slats shall be free from pits, burrs and other defects which are detrimental in their use.

4.2 Protective coating shall be provided on the surface of the slats.

5 PACKING

As agreed to between the purchaser and the supplier.

6 MARKING

6.1 Each slat shall be marked with the following particulars:

- Manufacturer's name or recognized trade-mark,
- Code or batch number, and
- Slat thickness and length.

6.2 BIS Certification Marking

The product may also be marked with Standard Mark.

6.2.1 The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the standard mark.

7 SAMPLING

7.1 Lot

In a consignment, all slats of same size manufactured from the same material under similar conditions of production shall be grouped together to constitute a lot.

7.2 Unless otherwise agreed to between the supplier and the purchaser, the procedure given in IS 2500 (Part 1) : 1992, shall be followed for sampling inspection. For dimensions and thickness, a single sampling plan with inspection level II and acceptance quality limit (AQL) 2.5 percent as given in Table 1 and II-A of IS 2500 (Part 1) : 1992, shall be followed.

Table 1

Sl No.	Capacity of Plant (Tons Per Day)	Milling Plant Size, mm	Width of Slat, W, mm	No. of Strands	Thickness of Slat, t mm	Slat Type (7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Up to 2 500	762 Φ X 1 525 Φ	188 or 183	2	6	Fig. 1B
ii)	2 500 to 3 500	850 Φ X 1 700 Φ	188 or 183	3	6	Fig. 1B
iii)	4 000 to 5 000	915 Φ X 1 830 Φ OR 915 Φ X 1 980 Φ	188 or 183	3	6	Fig. 1A
iv)	5 000 to 7 500	1 016 Φ X 2 032 Φ	200 or 195	3	8	Fig. 1A
v)	7 500 to 10 000	1 143 Φ X 2 286 Φ	200 or 195	3	8	Fig. 1A
vi)	10 000 to 12 500	1 270 Φ X 2 540 Φ	200 or 195	4	8	Fig. 1A

L = Length of slat = Width of cane carrier - 20 mm

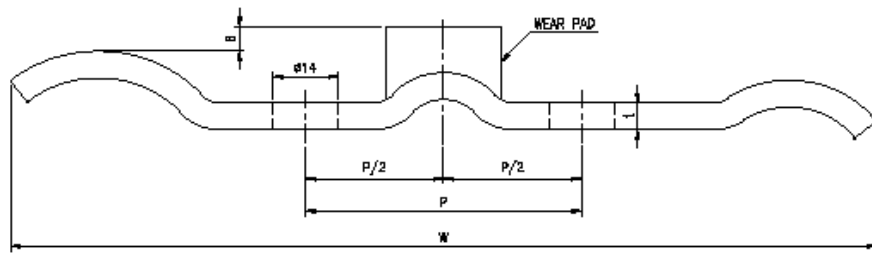


FIG. 1A

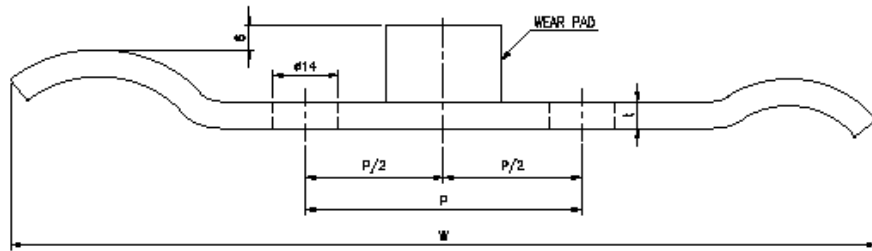


FIG. 1B

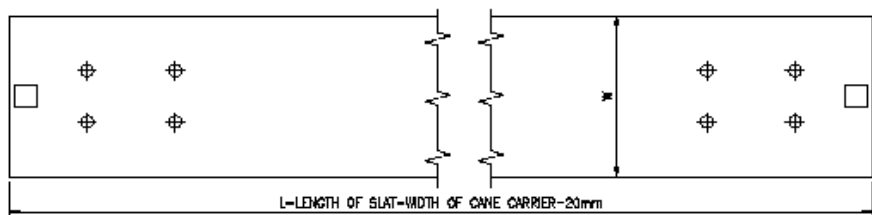


FIG. 1C

P=60mm (FOR HEXAGONAL HEAD BOLTS)
75mm (FOR T HEAD BOLTS)

FIG.1 SLATS FOR CANE CARRIERS

ANNEX A*(Foreword)***COMMITTEE COMPOSITION**

Sugar Industry Sectional Committee, FAD 02

<i>Organization</i>	<i>Representative(s)</i>
National Sugar Insititure, Kanpur	SHRI NARENDRA MOHAN (Chairman) SHRI ASHUTOSH BAJPAI
Army Service Core (ASC), New Delhi	LT COL B. B. SAHU
CONCERT, Chennai	SHRI R. SANTHANAM SHRI M. SOMASUNDARAM (<i>Alternate</i>)
Consumer Guidance Society of India, Mumbai	SHRI SITARAM DIXIT DR M. S. KAMAT (<i>Alternate</i>)
Food Corporation of India, New Delhi	SHRI DEEPAK KUMAR PANWAR SHRI RAKESH KUMAR RANJAN (<i>Alternate</i>)
Food Safety Standards Authority of India, New Delhi	Ms APOORVA SRIVASTAVA (TECHNICAL OFFICER)
Global Cane Sugar Ltd, New Delhi	DR G. S. C. RAO MR ANIL SRIVASTAVA (<i>Alternate</i>)
Indian Institute of Sugarcane Research, Lucknow	DR A. D. PATHAK DR A. K. SHARMA (<i>Alternate</i>)
Indian Institute of Toxicology Research, Lucknow	DR YOGESHWER SHUKLA
Indian Sugar Mills Association , New Delhi	SHRI G. K. THAKUR SHRI PANKAJ RASTOGI (<i>Alternate</i>)
Indian Sugar Exim Corporation, New Delhi	MR RAJIV AGGARWAL MR RAJEEV KURUP (<i>Alternate</i>)
Ministry of Consumer Affairs, Food & Public Distribution, New Delhi	SHRI SURESH CHANDRA
National Co-operative Development Corporation, New Delhi	SHRI K. P. VAISH SHRI N. K. SHARDA (<i>Alternate</i>)
National Fed. Of Co-operative Development Corporation, New Delhi	MR MANOHAR GOPAL JOSHI
The Sugar Technologists Association of India, New Delhi	SHRI SANJAY AWASTHI SHRI ANURAG GOYAL (<i>Alternate</i>)
Triveni Engineering & Industries Ltd, Muzaffarnagar, UP	SHRI RAJESH SINGH SHRI P. K. KHADELWAL (<i>Alternate</i>)
BIS Directorate General	SHRI P. RAJESH, SCIENTIST 'E' AND HEAD (FAD) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

*Member Secretary*SHRI RAJPAL
SCIENTIST 'C' (FAD) BIS

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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